

SUBSTITUTE SEQUENCE LISTING

<110> BEISSERT, STEFAN
 LOSER, KARIN

<120> MEANS FOR STIMULATION AND ACTIVATION OF HAIR GROWTH BY IL-15

<130> 293024US0PCT

<140> 10/584,766

<141> 2006-06-28

<150> PCT/EP04/013907

<151> 2004-12-07

<150> EP 03029899.6

<151> 2003-12-29

<160> 7

<170> PatentIn version 3.3

<210> 1

<211> 1968

<212> DNA

<213> Homo sapiens

<400> 1

actccgggtg gcaggcgccc gggggaatcc cagctgactc gtcactgcc ttcgaagtcc	60
ggcgcccccc gggaggggaac tgggtggccg caccctcccg gctgcggtgg ctgtcgcccc	120
ccaccctgca gccaggactc gatggaggta cagagctcgg cttctttgcc ttgggagggg	180
agtgggtggtg gttgaaaggc cgatggaatt ttccccgaaa gcctacgccc agggcccctc	240
ccagctccag cgttaccctc cggctctatcc tactggccga gctgccccgc cttctcatgg	300
ggaaaactta gccgcaactt caatttttgg tttttccttt aatgacactt ctgaggctct	360
cctagccatc ctcccgttc cggaggagcg cagatcgagc gtccctttgc cctggcggtg	420
cgactcccta ctgcgctgcg ctcttacggc gttccaggct gctggctagc gcaaggcggg	480
ccgggcaccc cgcgctccgc tgggaggggtg agggacgcgc gtctggcggc cccagccaag	540
ctgcggggtt ctgagaagac gctgtcccgc agccctgagg gctgagttct gcacccagtc	600
aagctcagga aggccaagaa aagaatccat tccaatatat ggccatgtgg ctctttggag	660
caatgttcca tcatgttcca tgctgctgac gtcacatgga gcacagaaat caatgttagc	720
agatagccag cccatacaag atcgtattgt attgtaggag gcatcgaggc tggatggctg	780
ctggaaaccc cttgccatag ccagctcttc ttcaataactt aaggatttac cgtggccttg	840

```

agtaatgaga atttcgaaac cacatttgag aagtatttcc atccagtgct acttgtgttt 900
acttctaaac agtcattttc taactgaagc tggcattcat gtcttcattt tgggctgttt 960
cagtgcaggg cttcctaaaa cagaagccaa ctgggtgaat gtaataagtg atttgaaaaa 1020
aattgaagat cttattcaat ctatgcatat tgatgctact ttatatacgg aaagtgatgt 1080
tcaccccagt tgcaaagtaa cagcaatgaa gtgctttctc ttggagttac aagttatttc 1140
acttgagtcc ggagatgcaa gtattcatga tacagtagaa aatctgatca tcctagcaaa 1200
caacagtttg tcttctaata ggaatgtaac agaatctgga tgcaaagaat gtgaggaact 1260
ggaggaaaaa aatattaaag aatttttgca gagttttgta catattgtcc aaatgttcac 1320
caacacttct tgattgcaat tgattctttt taaagtgttt ctgttattaa caaacatcac 1380
tctgtgctt agacataaca aaacactcgg catttcaaat gtgctgtcaa aacaagtttt 1440
tctgtcaaga agatgatcag accttggatc agatgaactc ttagaaatga aggcagaaaa 1500
atgtcattga gtaatatagt gactatgaac ttctctcaga cttactttac tcattttttt 1560
aatttattat tgaaattgta catatttggt gaataatgta aaatgttgaa taaaaaatatg 1620
tacaagtgtt gttttttaag ttgcaactgat attttacctc ttattgcaaa atagcatttg 1680
tttaagggtg atagtcaaat tatgtattgg tggggctggg taccaatgct gcaggccaac 1740
agctatgctg gtaggctcct gcctgtgtgg aaccactgac tactggctct cattgacttc 1800
cttactaagc atagcaaaca gaggaagaat ttgttatcag taagaaaaag aagaactata 1860
tgtgaatcct cttctttaca ctgtaattta gttattgatg tataaagcaa ctgttatgaa 1920
ataaagaaat tgcaataact ggcaaaaaaa aaaaaaaaaa aaaaaaaaaa 1968

```

```

<210> 2
<211> 162
<212> PRT
<213> Homo sapiens

```

```
<400> 2
```

```

Met Arg Ile Ser Lys Pro His Leu Arg Ser Ile Ser Ile Gln Cys Tyr
1           5           10           15

```

```

Leu Cys Leu Leu Leu Asn Ser His Phe Leu Thr Glu Ala Gly Ile His
20           25           30

```

```

Val Phe Ile Leu Gly Cys Phe Ser Ala Gly Leu Pro Lys Thr Glu Ala
35           40           45

```

Asn Trp Val Asn Val Ile Ser Asp Leu Lys Lys Ile Glu Asp Leu Ile
 50 55 60

Gln Ser Met His Ile Asp Ala Thr Leu Tyr Thr Glu Ser Asp Val His
 65 70 75 80

Pro Ser Cys Lys Val Thr Ala Met Lys Cys Phe Leu Leu Glu Leu Gln
 85 90 95

Val Ile Ser Leu Glu Ser Gly Asp Ala Ser Ile His Asp Thr Val Glu
 100 105 110

Asn Leu Ile Ile Leu Ala Asn Asn Ser Leu Ser Ser Asn Gly Asn Val
 115 120 125

Thr Glu Ser Gly Cys Lys Glu Cys Glu Glu Leu Glu Glu Lys Asn Ile
 130 135 140

Lys Glu Phe Leu Gln Ser Phe Val His Ile Val Gln Met Phe Ile Asn
 145 150 155 160

Thr Ser

<210> 3
 <211> 1312
 <212> DNA
 <213> Mus musculus

<400> 3

ccacgcgtcc gcaataactca gtggcactgt attcccccttc tgtccagcca ctcttcccca	60
gagttctctt cttcatcctc ccccttgag agtagggcag cttgcaggtc ctcttgcaag	120
tctctcccaa ttctctgcgc ccaaaagact tgcagtgcac ctcttacgc gctgcaggga	180
ccttgccagg gcaggactgc ccccgcccag ttgcagagtt ggacgaagac gggatcctgc	240
tgtgttttga aggctgagtt ccacatctaa cagctcagag agaatccacc ttgacacatg	300
gccctctggc tcttcaaagc actgcctctt catggctcctt gctggtgagg tccttaagaa	360
cacagaaacc catgtcagca gataaccagc ctacaggagg ccaagaagag ttctggatgg	420
atggcagctg gaagcccatc gccatagcca gctcatcttc aacattgaag ctcttacctg	480

```

ggcattaagt aatgaaaatt ttgaaacccat atatgaggaa tacatccatc tcgtgctact 540
tgtgtttcct tctaaacagc cacttttttaa ctgaggctgg cattcatgtc ttcattttgg 600
gctgtgtcag tgtaggtctc cctaaaacag aggccaactg gatagatgta agatatgacc 660
tggagaaaaat tgaaagcctt attcaatcta ttcatatgta caccacttta tacactgaca 720
gtgactttca tcccagttgc aaagttactg caatgaactg ctttctcctg gaattgcagg 780
ttattttaca tgagtacagt aacatgactc ttaatgaaac agtaagaaac gtgctctacc 840
ttgcaaacag cactctgtct tctaacaaga atgtagcaga atctggctgc aaggaatgtg 900
aggagctgga ggagaaaacc ttcacagagt ttttgcaaag ctttatacgc attgtccaaa 960
tgttcatcaa cacgtcctga ctgcatgcga gcctcttccg tgtttctggtt attaaggtac 1020
ctccacctgc tgctcagagg cagcacagct ccatgcattt gaaatctgct gggcaaatta 1080
agcttcctaa caaggagata atgagccact tggatcacat gaaatcttgg aaatgaagag 1140
aggaaaagag ctgctctcag acttattttt gcttgcttat ttttaattta ttgcttcatt 1200
tgtacatatt tgtaatataa cagaagatgt ggaataaagt tgtatggata ttttatcaat 1260
tgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 1312

```

```

<210> 4
<211> 162
<212> PRT
<213> Mus musculus

```

```

<400> 4

```

```

Met Lys Ile Leu Lys Pro Tyr Met Arg Asn Thr Ser Ile Ser Cys Tyr
1           5           10           15

```

```

Leu Cys Phe Leu Leu Asn Ser His Phe Leu Thr Glu Ala Gly Ile His
          20           25           30

```

```

Val Phe Ile Leu Gly Cys Val Ser Val Gly Leu Pro Lys Thr Glu Ala
          35           40           45

```

```

Asn Trp Ile Asp Val Arg Tyr Asp Leu Glu Lys Ile Glu Ser Leu Ile
          50           55           60

```

```

Gln Ser Ile His Ile Asp Thr Thr Leu Tyr Thr Asp Ser Asp Phe His
65           70           75           80

```

Pro Ser Cys Lys Val Thr Ala Met Asn Cys Phe Leu Leu Glu Leu Gln
85 90 95

Val Ile Leu His Glu Tyr Ser Asn Met Thr Leu Asn Glu Thr Val Arg
100 105 110

Asn Val Leu Tyr Leu Ala Asn Ser Thr Leu Ser Ser Asn Lys Asn Val
115 120 125

Ala Glu Ser Gly Cys Lys Glu Cys Glu Glu Leu Glu Glu Lys Thr Phe
130 135 140

Thr Glu Phe Leu Gln Ser Phe Ile Arg Ile Val Gln Met Phe Ile Asn
145 150 155 160

Thr Ser

<210> 5
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide

<400> 5

caatgatata cactgtttga gatga

25

<210> 6
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide

<400> 6

cgtgttgatg aacatttgga caa

23

<210> 7
<211> 1250
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 7

cttctgtcca gccactcttc cccagagttc tcttcttcat cctccccctt gcagagtagg	60
gcagcttgca ggtcctcctg caagtctctc ccaattctct gcgcccaaaa gacttgca	120
gcattctcctt acgcgctgca gggaccttgc cagggcagga ctgccccgc ccagttgcag	180
agttggacga agacgggatc ctgctgtgtt tggaaggctg agttccacat ctaacagctc	240
agagaggtca ggaaagaatc caccttgaca catggccctc tggctcttca aagcactgcc	300
tcttcatggg ccttgctggg gaggtcctta agaacacaga aacccatgtc agcagataac	360
cagcctacag gaggccaaga agagttctgg atggatggca gctggaagcc catcgccata	420
gccagctcat cttcaacatt gaagctctta cctgggcatt aagtaatgaa aattttgaaa	480
ccatatatga ggaatacatc catctcgtgc tacttggtgtt tccttctaaa cagtcacttt	540
ttaactgagg ctggcattca tgtcttcatt ttgggctgtg tcagtgtagg tctccctaaa	600
acagaggcca actggataga tgtaagatat gacctggaga aaattgaaag ccttattcaa	660
tctattcata ttgacaccac ttatacact gacagtgact ttcacccag ttgcaaagtt	720
actgcaatga actgctttct cctggaattg cagggtattt tacatgagta cagtaacatg	780
actcttaatg aaacagtaag aaacgtgctc taccttgcaa acagcactct gtcttctaac	840
aagaatgtag cagaatctgg ctgcaaggaa tgtgaggagc tggaggagaa aaccttcaca	900
gagtttttgc aaagctttat acgcattgtc caaatgttca tcaacacgtc ctgactgcat	960
gcgagcctct tccgtgtttc tgttattaag gtacctccac ctgctgctca gaggcagcac	1020
agctccatgc atttgaaatc tgctgggcaa actaagcttc ctaacaagga gataatgagc	1080
cacttgatc acatgaaatc ttggaaatga agagaggaaa agagctcgtc tcagacttat	1140
tttgcttgc ttatttttaa ttattgctt catttgtaac tatttgtaac ataacagaag	1200
atgtggaata aagttgtatg gatattttat caattgaaat ttaaaaaaaaa	1250